

This newsletter is published monthly for the benefit of the Radio Club in Southeastern Wisconsin. Reproduction, with credit given, is granted for any thing appearing within THE HAMATEUR. Publication dates are scheduled for the 28th of each month.

Editor: WA9JMO.....Larry McCalvy.....7453 W. Thurston Ct....Milw., Wis. 53218, 464-7449  
 Want Ads: W9AMM.....Don Habeck.....5973 Sugarbush La.....Greendale, Wis. 53129  
 Biography: WB9UES.....Pete Schreiber.....23613 - 60th St.....Salem, Wis. 53168  
 Technical Items: K9TBD.....Joel Elston.....4360 N. Wildwood Ave...Milw., Wis. 53211  
 Reporters: Circulation: WB9TPD.....Lee Benson.....771-8797  
 25/85....WB9OJE...Jim Wierzba.....281-6766 6-MIC....WA9UXL...Art Acheson...645-6122  
 07/67....WB9NNJ...Bob Fairman.....352-2656 MRAC.....W9MDG....El Belanger...461-8272  
 31/91....WA9RYO...Al Bingenheimer...464-8488 Ozaukee..WA9BMA...Ed Bach..284-2664/Metro 242-3420

### WA9 Just Mouthing Off

Each of our supportive clubs publishes a club roster sometime during the year in one form or another, each using its own independent method. This has seemed to satisfy its member's needs in the past. But, now that we have and are reading a combined newsletter, I would like to see a combined roster of all the clubs in our area, with each club having its own section. I can visualize several benefits to this undertaking for all concerned. First and foremost would be the cost, shared by all, each club would pay much less than each going it along. Second, each member would have access to the membership list of all the clubs in the area (how many times have you searched for the names and calls of officers or members of other local clubs). Third, the updating of a uniformed roster would be much simplified by using this newsletter as a bi-monthly clip and paste method to incorporate the necessary changes to maintain a current club roster. If you like the idea, talk to your club officers and fellow members. All it takes is a little effort.

The bulk of the readers of this publication reside in or around the greater metropolitan Milwaukee area and their input and/or comments are easily accessible. I would therefore like to direct these comments to those residing outside this area. All too many times, members like yourself, out of state or living in the northern or western part of this state, are forgotten by the parent clubs. You are not able to attend the local functions so your input, ideas and desires tend to go unsolicited. I would like to extend an invitation for you to do so. I would very much like to hear from you, if only to confirm your address and that you have been receiving THE HAMATEUR. Any comments, pro or con, as well as what you would like to see in future issues would be most appreciated. I am looking forward to hearing from you.

Amateur interest has been growing rapidly during the past several years. Many of these interested individuals are drifting our way via the overswelling CB ranks. They are asking how they can enter our fraternal order. We can tell them what they must know, but all too often cannot tell them where, outside of the self-taught method, they can learn these needed skills. I understand various classes, novice to extra, are being offered from clubs in our local area at different times. Hopefully, our newsletter can fill this void of communicating this information to prospective Hams. As a starting point, here are some of the classes I am aware of at this time: In Elkhorn at G.T.I., starting Jan. 20 for 12 weeks, is a Novice class using ARRL materials. Also an upgrading class for all divisions of Amateur radio operators will be offered in the West Bend area sometime during the month of February...watch for details. Gleaned from the January issue of Kettle Drums, are the following upcoming radio classes: Bill, W9HE, will be teaching a Novice class at New Berlin High School (phone Bill at 542-1647 for details). Bob (547-5234) WB9LJW, will be teaching a class in New Berlin at WCTI Extension. There will also be a General Class at Pilgrim Park Jr. High School in Brookfield.

### CLUB News

#### M·R·A·C

The next regular meeting will be Feb. 10, 1977. Send club news to this reporter by the first of the month for inclusion in the next month's issue. What is news? Anything not previously published herein. We are still looking for new members, new programs and starting a novice license class.

Membership inquiries should be directed to me at this time. As general information, I now have a "1977" call-book for help in locating new licenses.

Looking ahead til spring - Auction in May. That's all for now.

Al Belanger

VOICE ID The pleasant voice you hear on the hour and half hour is not a breaker, but the voice of Karen, WB9IJY's XYL. The tape ID was off for the last 8 months after a drive belt broke. It is interesting to note the large number of new users we have acquired in that time as evidenced by their comments on the "new" identifier.

REPEATER MAINTENANCE Although it seemed we had more than our share of technical trouble with the repeater in 1976, the actual maintenance costs were \$10 for the tape drive belt and a new control relay. This was after nearly 3,500 hours of on the air time. Those who would like more "bells and whistles" on the system should note the additional costs in downtime and dollars that go with more frill items.

NEW YEAR RESOLUTIONS A large influx of new users has increased the activity on our machine. The relaxed atmosphere of operation results in many compliments from transient users regarding the friendly group on WR9ABM. The veteran users of the repeater have let the new users get their feet wet on the machine with the result that their guiding example of operating has been absent. These "New Year Resolutions" are common sense procedures that apply to all repeaters, not just WR9ABM.

Don't break into a contact unless you have something to add. Interrupting is no more polite on the air than it is in person. Breaking in "just to say hello" is rude and should not be tolerated. Emergency traffic has priority. Only two stations should be handling the emergency. Don't break in "to sign out". When you are not in the emergency, DO NOT TRANSMIT. Realize that more information may be required of the reporting station.

The repeater has 200 members and many more users during a typical week. If a user is on for more than 10 minutes during prime "drive time" he is monopolizing the system. Don't ragchew from the time you leave home until you arrive at work or vice versa. There are scores of other users who would like to do the same thing.

THE COST OF TALKING MRC will require 205 full time (\$10 per year) members in 1977 just to break even on operating costs and equipment debt. In 1976 we had about 150 full time members. If you hear a new user on, introduce him to our membership chairman, Don W9AMM, or give him our post office box number (P.O. Box 2123, ZIP 53201).

MILWAUKEE MESSAGE CENTER Last month I suggested fox hunts for base stations. This month another idea on new FM activities is presented for your edification.

Some husband/wife ham teams are known to most of us. The XYL usually has a license because of the convenience of talking to the OM. If the XYL does not have a license, there is no convenient way of calling the OM in the car.

How about a central service that has one phone number where the XYL can call and have the licensed operator there call the OM? Twenty-four hour service would be nearly impossible, but surely drive time coverage could be provided. Bring it up at your next club meeting.

EMERGENCY PHONE NUMBER ERRORS IN ROSTER Note the following changes in the inside cover listing: Butler Police 781-9696; Cudahy Fire 744-1234; Sussex Police 544-8111; Waukesha Police 544-8444; Racine Co. Sheriff 636-3211; Waukesha Co. Sheriff 544-8111; Washington Co. Sheriff 338-2121.

1977 DUES If you have not received a dues notice by now, send your \$10 check to the Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201. Please note your call on the check. Husband/wife/family memberships are \$10 also. Include a list of all names and calls in the family membership.

1977 ANNUAL MEETING The January 13 meeting of MRC attracted 65 people. The free refreshments induced warm feelings on a cold night. The 1976 officers were reelected. They are: President - Larry Kaja, WA9RWO, Vice-President - Al Bingenheimer, WA9RYO; Secretary - Fred Linn, W9NZF; and Treasurer - Nels Harvey, WA9JOB. The third equipment payment of \$800 was presented to John LeFeber, W9VAT, and Dick Robbins, WB9AIS. The repeater is now 75% owned by the repeater club.

AL WA9RYO

## FROM THE MRC "CORNER POCKET"

The year 1976 has come and gone and we find ourselves well into 1977. Last year was surely a record year for the Milwaukee Repeater Club with membership surpassing the 200 mark!! I owe a great deal of thanks to all of you who have supported our 31/91 machine. However, one thing bothers me...I always hear the same group of people day after day after day. Problem is this group totals 15 or 20 people at the most! Where are the other 180 or so?

Happiness is hearing Todd WB9HJG call his dad, Bill WB9HJH, in the late afternoon. How many of you have QSO'd with Todd or Bill? Not many, I'll bet! Let's not let this dynamic repeater get stagnant! Try and keep the gassing to a minimum. Maybe we're discouraging the others from participating by our long-winded QSO's. Just to keep the finger-pointing to a minimum, I'll include WA9RWO in that group of 20. 73's for a happy and prosperous '77.

Larry Kaja WA9RWO, President MRC

Nomination for club officers were held at our January 18 meeting. Those nominated are as follows: For President--Paul Leising, WB9KYR; Vice President--Bob Miller, WB9TFE; Secretary--Bill Neuman, WB9EFP, Tom Mahnke, WB9CSK, Erv Kitzerow, WB9OEY, and Lamar Hornik, WB9LAA; Treasurer--Larry Laranth, WB9JGC, Lee Lannoye, WA9AOE, and Tom Mahnke, WB9CSK. Further floor nomination and the election will take place at the February 15 meeting, at the Schlitz Brown Bottle, 221 W. Galena, Milwaukee. Parking is available in a guarded fenced-in lot on the north side of Galena between 3rd and 4th streets. There will be a short business meeting followed by the election and its results. The 807s will be flowing. Meeting will start one half hour earlier at 7:30 P.M. All hams and their guests are invited. See you there.

Jim, WB9OJE

The January meeting was held on the evening of the 12th. The final arrangements for the Post-Xmas-Pre-Valentine's Party were made. It was reported that use of part of the MATC Building in Port Washington by the Club was still up in the air. New officers were elected. They are: President - Ed Bach WA9BMA; Vice President - Faus Prinz WA9GDA; Vice President Repeater - Russ Schreiner WB9PAS; Secretary - Barry Anderson WB9SFK and Treasurer - Gene Musbach WB9RQW. Terry Berg WA9AWO will continue as activity manager. Thanks to those who served, and best wishes to those who will serve. The next meeting will be February 9, 1977, at the usual place. The club finished the meeting with 33 paid up and voting members and one Repeater class only member. A total of 21 members are paid up with the Repeater Group. Members who are not paid up by the February meeting will be dropped from the roll. Get those dues in, either in person or to PO Box 13, Port Washington, Wisconsin 53074. Dues are \$5.00 Regular, \$4.00 Repeater (\$9.00 for both) and \$1.00 for full time students. The mailing list for "The Hamateur" will be limited to paid up members only. For late news, check the weekly net, 3940 KHZ, Sunday, 1300 local.

### LATE NEWS FROM OZAUKEE

The Annual Post-Xmas-Pre-Valentine's Party was a rousing success as usual. So far as can be determined, all who attended left with the escort they brought. WA9GDA Faus said he had intended to bring his 110 foot tower complete with three band beam as his contribution to the raffle, but he couldn't get it in his car, so he had to settle for bringing a couple of gassy 6146's. Rick WB9RSJ says he believes that all of the ladies leave this affair with several prizes; the prizes they won and their OM's (all of whom are prizes, but that's another story). . . . . Hal WB0HAI reports that he has rented a loft up in Stewartville, MN, where he is assembling a full size three element, three band quad for field day. His big design problem at the moment is trying to attach the operating position to the boom so that he can keep the feed lines short. . . . . The news has filtered down from North Hudson, Wisconsin, that Michael the Miser, WA9SMC is engaged. He says it is the only way he could get the lady to join the Radio Club. The YL, in an impressive display of intelligence and good judgment, advises that she will join the club only after the ceremony has been performed. . . . . Irving, WR9AAE, has found somebody in Cedarburg using his control link frequency for simplex. Since he is still suffering intermod when 07/67 is up and his 97 is on, and his house is not heated in any manner save for his own body warmth, he was understandably quite upset. His caretakers, Russ WB9PAS and Ralph WA9UDZ did all they could to console him. They told Irving that his intermod problem has been traced to his antenna system and the one who drew the short straw would climb up the pole and fix it as soon as the weather breaks. In the meantime, so Irving was told, John WB9OHV has finished a nice new 450 MHz transmitter for his control link, and Ralph WA9UDZ is just about finished with a new receiver. As far as simplex on his control link is concerned, they will get him new rocks if necessary. They also told him that Quinn W9FAD has finished a nice new autopatch decoder for him complete with touchtone to dial pulse converter and that it works great. He seemed consoled, promised he would continue to do his best with what he had, but as Russ and Ralph were closing the door to his house Irving was heard to say, "Just remember fellows, it's me and not you who have to try to function in this #c\*\*XX@+! cold!"

The next meeting of the Repeater Group will be held on January 26, 1977, at 7:30 PM, at the Cedarburg Civil Defense Center just south of the power plant. Don't forget your dues! 73 Ed WA9BMA

### 50MHz

### 6-MIC

### 50MHz

The January meeting of the 6 Mic Club was held on January 7, 1977, at the QTH of Jim, WB9RSK. Among the subjects covered were a discussion of the December QSO Party, awards, the annual picnic and the yearly elections coming up in April. It was decided that members desiring to be elected to office should have the chance to let their wishes be known. There are two meetings, February and March, before the elections. So now is the time for you to begin stumping for your choice of office.

The December QSO Party, held on 19 December, 1976, was enjoyed by all who participated. A band opening sure would have helped! Remember to get your logs to Jim, WB9RSK, by the end of January, for your entries to be counted. The 6 Mic Christmas Party was enjoyed by everyone who attended. Al, WB9IKB and my XYL, Elaine, won the drawing for the door prizes. Elaine enjoyed the prize so much that she doesn't want to share it - Darn! The annual 6 Mic picnic will be held in Wirth Park, Brookfield, on the 21st of August. Please plan to attend. Lots more details later.

The second Annual Alligator Award was presented to Jim, WA9DOT, at the January meeting. This award is given to the 6 Mic member who, by his activities has advanced 6 Meters and Amateur Radio during the preceding year. Congratulations, Jim, the award was well deserved.

The February meeting will be held at Prima's Restaurant, 2425 W. Wisconsin Ave, on 3 February, 1977, at 7:30. PLEASE COME! 73's Art, WA9UXL

### DUES FREE AUTOPATCH REPEATER

Sound good? It does to me. This is the basic idea a group of local Hams have in mind. A repeater open to all without dues, strictly for autopatch in the Milwaukee area. The system's call letters will be WR9AHX and will operate on 147.60 in, 147.00 out. The 6-db antenna will sit atop a 40-foot tower on the Holiday Inn, 1926 W. Wisconsin Ave., downtown Milwaukee. Access to the 40 watt machine will be via a three digit touchtone code available from WB9QJD, Erling Gruel, only by letter (2181 S. 85th St., West Allis, Wis. 53227).

This machine will only access autopatch calls and will not respond to a toneless carrier. There will be no charge for this service, but will accept any support from any participating Amateur Radio Operator.

## OPERATION SANTA A BIG SUCCESS

"Calling Santa Claus, calling Santa Claus. Are you ready to talk to some children in Milwaukee? This is W9WK, net control, over."

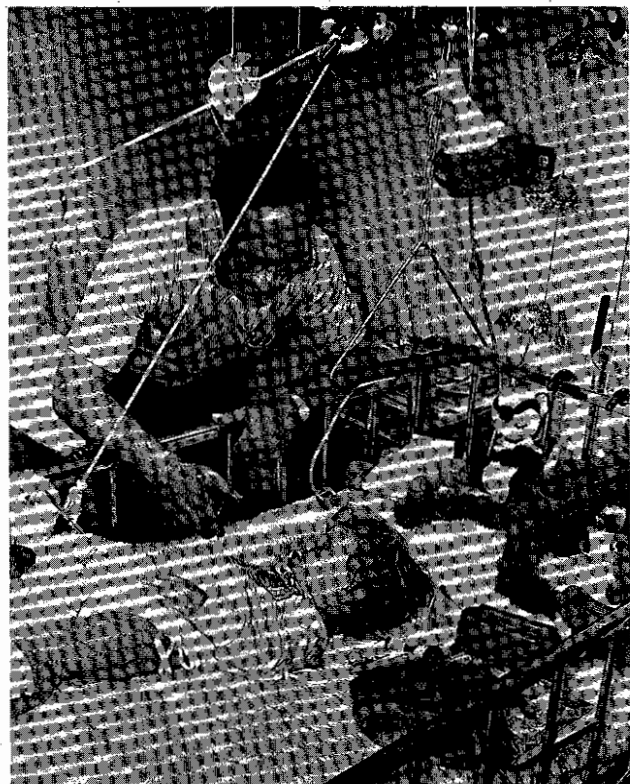
That's the way "Operation Santa" got underway at 3:30 P.M. on Christmas Eve with WB9SMM and WB9KYR acting as net control operators. Twenty-eight hams handled 45 messages from area hospitals and 40 additional messages from home QTH's to Santa Claus.

Santa was portrayed by Jack Lee of WEMP/WNUW, who donated his time for the event. Net control was located in the Milwaukee Sheriff's dispatch center, and even Sheriff Wolke got into the act by declaring "a severe milk and cookie shortage" in the Milwaukee area.

Amateurs participating included: W9's ATK, BLK, RLO, SUF, VQD, ZPV, K9SFJ; WA9's AOE, HHL, RWO, TOP, WTM, and WB9's BZC, EUS, JGC, KYR, NDM, NNJ, OWN, PCQ, RKN, SMM, TCX, TPD, WKC, WRW, YFV.

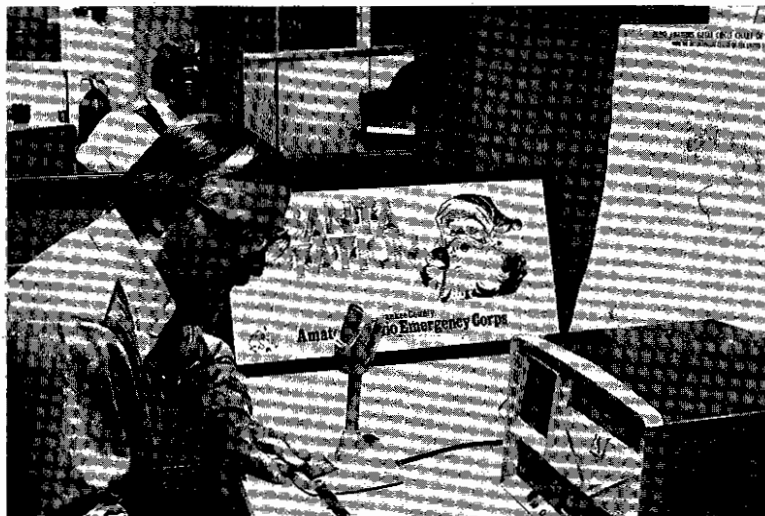
73's WB9VKC

at a glance ...



Milwaukee Sentinel Photo

George - W9SUF with a two year old  
at St. Joseph's Hospital



Jack "Santa" Lee, as he talks with  
kids while "enroute to Milwaukee"



The newly elected officers of MRC, 31/91, from left to right are: Sec'y Fred Linn, S9NZF; Pres. Larry Kaja, WA9RWO; VP Al Bingenheimer, WA9RYO; and Treas. Nels Harvey, WA9JOB.



Pearl - WB9BZC with WRIT reporter  
Carl Gannon assisting patient talk  
with Santa in Children's Hospital

## NEWS AND COMMENTS ABOUT HAPPENINGS NATIONWIDE

Instant upgrade will finally become a reality and give the Amateur who successfully passes an exam at an FCC office his new privileges immediately. The temporary authority is to be issued on the spot by the examining office and will be good for 90 days or until an upgraded license is issued. Effective March 1, 1977, K2VN is a novice call issued to Chester Charles, 78, of N.J. who held 2VN back in 1914 (HR report). As of November 1, 1976, 7,101,776 CB licenses have been issued (HR report), which leads me up to the following:

Since the introduction of Citizens Band Radio, there has been over 10 million sets sold to the general public, and 8 million licenses issued to go along with the estimated one million operating unlicensed. But now the worm has turned and the sunspot cycle is starting to climb and will peak in late 1978, and alas, the 11 meter band will gradually deteriorate beginning in the fall of 1977 to a point where cross town communication will be almost impossible and will continue until about 1980 when it will start going the other way again.

While the Hams will be having a ball with long skip on 10, 15, and 20 meters, the Cbers will be committing suicide by the thousands because they won't be able to warn their good buddies that there's a Smoky back at mile post 135. The revenue of the Sheriff's Dept. will undoubtedly notice a steady increase. But, we in Ham radio will have to look at the situation in a different light. We now have about 800,000 Hams in the world and I estimate that by the end of 1980 we will have over 3 million. This will come about by the Cbers coming over to our side in droves.

Now is the time to welcome the Cber into the ranks of Ham radio. MRC will surely get its share if our membership puts up the welcome sign. I predict that by the end of 1978 we will have a minimum of 400 paid members plus a few extra goodies tied into our 31/91 system.

W9EWW, Ed Diedrich

## OSCAR: THE NEW FRONTIER

Many radio amateurs are being bitten by the Oscar bug because it opens up a little explored aspect in the ham radio field. Old hams whose enthusiasm for the hobby seemed to decline had their fires rekindled when they too could take part in space communications. Other amateurs whose time was divided by other interests now have a good excuse to give more time to ham radio.

All you need to get involved in Oscar is a 10 meter receiver and antenna and a 2 meter transmitter along with at least a technician's license. Presently 2 Oscars are orbiting the Earth. Both carry 2 to 10 meter repeaters. Oscar 7 also carries a 70 cm (432 Mhz) to 2 meter repeater. The repeaters transmit and receive any mode, but CW and SSB are the most efficient and preferred.

Both Oscar 6 and Oscar 7 are in an orbit 910 miles above the Earth and it takes 115 minutes to make an orbit. At this altitude the line of sight is about 2500 miles, so QSO's can take place as far as 5000 miles apart. Because the Earth rotates under the satellite it is over different spots at different times. To find out when Oscar is over your area, you should copy the Oscar Bulletins transmitted by WIAW, or obtain an Oscarlocator from the ARRL.

Presently Oscar 6 is available for contacts on Sunday, Wednesday and Friday evenings local time. Its time is limited, because of its age, to maximize its life span. Oscar 7 transmits on 10 meters on even days of the year and transmits on 2 meters on odd days of the year.

As you listen to Oscar you can hear hams from all the states and at least 100 countries. You can also hear the telemetry beacon which sends data to ground stations so they can determine the satellite's operating status.

There are a number of operating awards available for working through Oscar. The Oscar 1000 is for working countries and states with certain point values, or the ARRL has a special DX achievement award. AMSAT, the group of hams that built the satellite, will send out a beautiful QSL to stations submitting accurate telemetry data.

So if you're into DX, VHF, or contesting I'm sure you'll find a new challenge in your interest by trying to do it through Oscar. It may seem difficult at first, but the reward is great.

Brian Cieslak WB9RZL

## DINNER ON THE WING...WELL ALMOST

W9YFW, Gordon Fedder, up in Shawano, Wis., had a unique experience. A flock of Canadian Geese took off from the Wolf River in front of his home and one hit his vertically polarized 22 element two meter beam up 80 feet, bending one of the elements about 45 degrees of center. Had Gordy had his beams horizontally polarized, the family would have enjoyed a fully cooked or roasted goose (130 watts out--5,200 watts ERP). Maybe next time, Gordy!! W9CUW, Charlie, dropped by Gordy's QTH and removed the bend. The antenna seems to function as well as ever.



## Technical Topics

### ACCESSORY JACK FOR THE HR-2

or "WHERE DO I PLUG IN MY BRAND NEW TOUCH-TONE PAD?"

In last month's column I described how I added a carrier indicator LED and carrier operated relay to my Regency HR-2.

Recently many manufacturers of transistorized 2M rigs have discovered that hams also have use for an accessory jack with such signals as audio in, audio out, PTT, 12V, gnd, etc., appearing. These are handy for feeding Touch-Tone, PL, tone burst and RTTY AFSK tones into the transmitter and for driving (from the Receiver) tone decoders, tape decks, RTTY TU's and so on.

Back about six years ago I installed my own accessory jacks for use on 2M RTTY (then on 146.88 simplex). Here's how I did it.

First the connector. Rather than "hack up" the rear panel of the HR-2, I simply modified the terminal strip already there. I removed the terminals from the terminal strip and put subminiature phone jacks in three of the holes. The fourth got a miniature toggle switch to function as an internal speaker shut-off switch. The audio lead (formerly on the terminal strip) went to one of the spare lugs on the Cinch-Jones power connector. One of the phone jacks was wired to deliver +12 volts (tip) and the PTT line (sleeve). These are easy to locate. For RTTY audio I wanted a constant level receive audio (independent of volume setting). This appears on the volume control. Tie in to one of the end lugs - use the one which does not have the small electrolytic connected. (This point is the collector of Q105) Stick a 0.1uf, 50v capacitor in series with this signal and connect, along with ground to one of the jacks. Don't omit the capacitor as DC is present at this point in the circuit.

For transmit audio locate the junction of R223, C227 and C228. Put a 39K resistor in series with this signal and connect, with ground, to the remaining jack.

OK...we're set for some tests. The transmit audio is being applied at a high level point after the clipping circuit so overdeviation can occur if you feed in too much level. Experiment with values around 0.1 v RMS. The receive audio will be around 0.8 v RMS from a high impedance source. The level will be independent of the volume control setting. Don't load this down too heavily or you'll notice a drop in speaker level (and perhaps distortion).

I've used my accessory jacks for tone burst (remember 34/76?), RTTY and tape recording. At any rate, there's no need to get a new rig just for the accessory jack. One evening and your HR-2 will be just as versatile.

73's Steve Reyer WA9VNJ

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# Classified Ads

Until further notice, non commercial ads will be accepted and published FREE for all newsletter readers. Closing date for ads is the 8th of the

publication month. Direct ad copy and related correspondence to: Don Habeck W9AMM, 5973 Sugarbush Ln, Greendale, WI. 53129 421-1245

FOR SALE: Onan 3-kw generator, 110 and 220 vac outputs, 8-hp engine, used 2 hrs; \$475. Contact Mike, WA9IIF, 21775 Gaywood Dr., Brookfield 53005 782-0142

FOR SALE: Heathkit 22A, 40 mtr SSB rig; \$75 or make offer. Touch-tone pad wired for TR-22C; \$30. Contact Larry, WA9CNA, 1200 W. Heather Ln. Milw. 53217 466-4193

FOR SALE or TRADE: 6-hp Sea King outboard mtr w/ext. gas tank, used 4 hrs; will trade for H.F. xcvr or sell; \$275. Trade Yaesu FT-221 for Kenwood TS-520. IC-22 mobile mount; \$7. Phone patch; \$10. Contact Larry, WA9JMA, Rte. 4, Box T.O. Lot 221, Whitewater 53190 473-7429

FOR SALE: Hallicrafters HT-37 xmtr, 80-10 mtrs, ssb, am, cw; vfo. Excellent condx; \$130 or best offer. Contact Dave, WB9IZT, 109 Caernarvon Dr., Wales 53183

FOR SALE: Heathkit HW-16 and HG-10B vfo. Excellent novice rig. Good condx; \$130. Contact Phil, WB9TAE, 52 Cottage Ave., Fond du Lac 54935 922-0971

FOR SALE: Standard 826, 12 channel 2-mtr rig (8 channels xtal'd) with 5/8 wave Larsen ant.; \$180. Collins 75S1 rec. and 32S1 xmtr with pwr supply; \$750. Contact Fred, W9NZF, 2929 N. Shepard Ave., Milw. 53211 964-0372

FOR SALE: 3-BR air conditioned ranch (near Meno Pkwy) w/den and attached garage. Home "free" with purchase of full Drake-line ham station including 50-ft tower and 6-ele. bm.; \$64,900. Contact Sid W9VKC. 461-3358 or 462-0800

FOR SALE: Complete novice station; \$75. Gonset G-66 rcvr with 6/12/110v power supply. AF67; 160-10 meter 60 watt, vfo, with p.s. Contact Bob Willett, K9NML, 1535 N. Calhoun Rd., Brookfield 786-6230

FOR SALE: Swan 240 w/remote vfo and Heathkit pwr supply; \$200. Contact Dan, WB9DCX, 5274 N. 84 St., Milw. 53225 463-0384

FOR SALE: Clegg FM-27B 2-mtr rig mint condx; \$275. Contact Roger, K9VWR or Dorothy, K9BBL, Lark Ave., Rte. 4, Hartford 53027 673-3901

FOR SALE: Hammarlund FM-50A, 2-mtr rig (6, 12VDC; 117VAC) w/crystals for 146.94 simplex; \$50. Contact Ken, K9BKJ, 6912 W. Layton, Greenfield 53220 282-1244 (5-6 PM)

FOR SALE: Swan Sygnet 270B HF xcvr, 12 vdc or 117 vac. Mint condx; \$300. (Estate of W9WYK) Contact Mrs. Hueblein, Waterford 534-2577

FOR SALE: Johnson KW Matchbox w/built-in swr bridge; \$200. Contact Jonesy, WB9RMD, 3627 W. Hope Ave., Milw. 53216 442-0358

FOR SALE: Multi-Elmac AF-68, 80 thru 6 mtrs, AM\*CW, vfo w/M1070 pwr supply (6, 12VDC; 117vac); \$60 or make offer. Clegg FM-27A 2-mtr xcvr; \$200. Contact Don, K9SHJ, 5969 Sugarbush Ln., Greendale 53129 421-4241

FOR SALE: Kyokuto FM-144, 2-mtr xcvr, synthesized, 15 watts; make offer. Wanted: Drake R-4 Series rec. Contact Howie Kaufmann, WA9TOP, 963-9172

FOR SALE: Heathkit Electronic Keyer, HD-1410. Mint. \$35. Pete, WB9QFD, 258-7788

FOR SALE: Yaesu FT101B, Mint condition, W/Fan; AC/DC power cord, hand mike. Make offer. Wayne, 284-4912, Port Washington

FOR SALE: Regency HR-2A with 94 and 67 simplex, 31/91, 25/85, 93/33, and 37/97 repeater pairs, plus complete autopatch and a 1/4 wave magnetic mount antenna. Asking \$140. Contact Larry, WA9RWO 547-1911

FOR SALE: Model 15, teletype printer and Model CV-89 converter; \$100. Contact Mike, WB9FYK, 10833 W. Good Hope Rd., Milw. 353-0366

FOR SALE: 3-BR Lannenstone home (rec room & fireplace) in Jackson Park area w/Mosley CL-33 and Cushcraft 11-ele. on 50-ft tower. Also NPC 6A. reg. pwr supply; \$30. Contact John, WB9PGY 543-1957

FOR SALE: Heathkit HW-32 20-mtr SSB xcvr w/HP-23 pwr supply and xtal calibrator; \$65. Contact Don, W9AMM, 5973 Sugarbush Ln, Greendale 53129 421-1245

WANTED: Inexpensive one or two freq. 2-mtr fm xcvr for 117 vac, 10 watts or so. Contact Larry, WA9JMO, 7453 W. Thurston, Milw. 53218 464-7449

WANTED: Your old newspapers would be appreciated to help support a field day group. Contact Norm, WB9PCQ, for pick-up. 764-5998

WANTED: Inexpensive offset printing press to help with newsletter expansion. Contact Don, W9AMM, 5973 Sugarbush Ln., Greendale, 53129 421-1245

WANTED: Buy or swap old amateur radio publications. Contact Carl Searing, W9LXE, 1129 McKinley Rd. Eau Claire 54701

WANTED: Heavy-duty crank-up tower. Contact Paul, K9LWT, 3326 S. Green Bay Rd., Racine 53403 554-9170

WANTED: Swan 500 & 117X pwr supply; Also, old (Motorola) vhf-hi fm xcvr and info for converting to 2-mtr fm. Contact Phil, WB9TAE, 52 Cottage Ave. Fond du lac 54935 922-0971

WANTED: Tri-band beam and heavy duty rotor. Call Al Foster, WB9ZBT, at 344-1440 days or 342-6375 evenings.

June 25-26.....Field Day  
 Whitewater Armory-WB9EMR  
 Mar. 20.....Tri-county ARC Swapfest  
 19-20.....ARRL DX Contest (CW)  
 Feb. 5-6.....ARRL DX Contest (phone)

## Upcoming Events

Meeting Notices  
 31/91.....March ?  
 25/85.....February 15, 1977  
 6 MIC.....February 3, 1977  
 Ozaukee.....February 9, 1977  
 07/67.....February 8, 1977  
 MRAC.....February 10, 1977  
 CQ3TUES.....February 15, 1977

Sue Musashi WB9BGJ 2-3  
 4921 North 58th Street  
 Milwaukee, Wis. 53218

BULK RATE  
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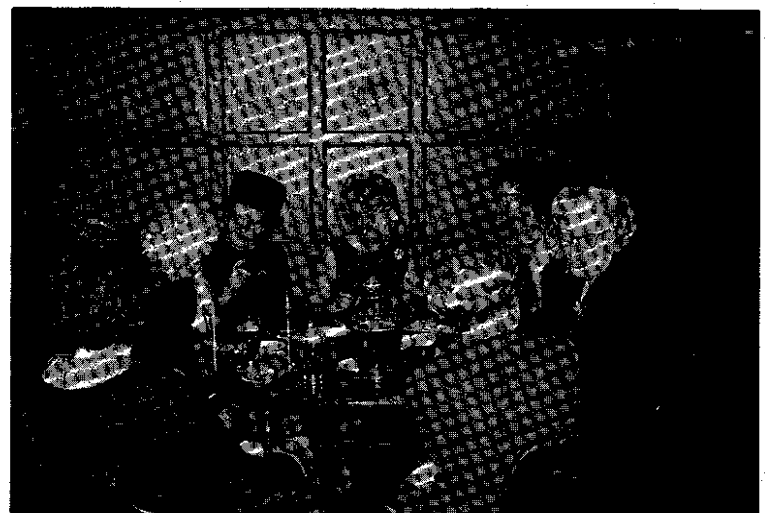
EDITOR: Larry McCalvy WA9JMO  
 7453 W. Thurston Circle  
 Milwaukee, Wisconsin 53218

## the HAMATEUR

## memories at a glance ...



The MRAC picnic, Booth Lake, Aug. 1934. Top Row: W9s ATO, KWV, NMG, EIH, --, --, D'Amico, OUF, LFK, DIJ, HRM. Bottom Row: W9s --, RH, CCD, GHN, Yorkowski, GSP, GIL, Bob Moser, GVL, Koenig



It is said that a picture is worth a thousand words, so I will let the picture indicate if these XYLS are or rather did have an enjoyable time at the Jan. 1967 MRAC's Old Timers Nite at Pabst Hall